(No Model.)

F. A. WALSH.

SHEET METAL VESSEL.

No. 366,049. Patented July 5, 1887.

Fig. 1.

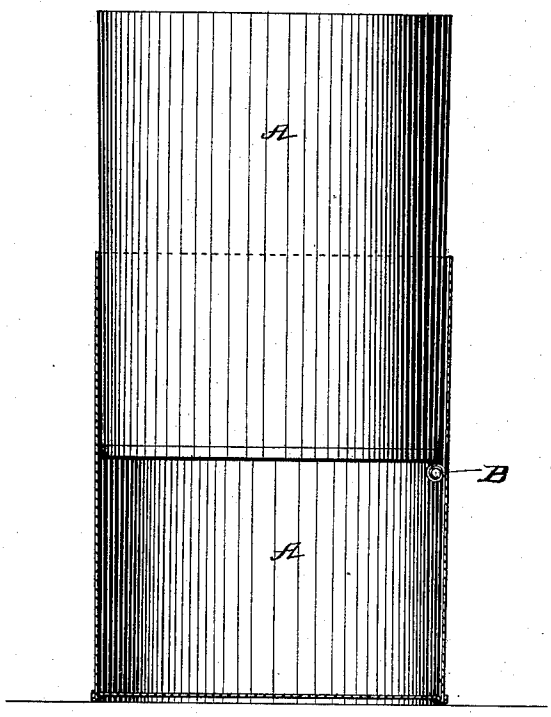


Fig. 2.

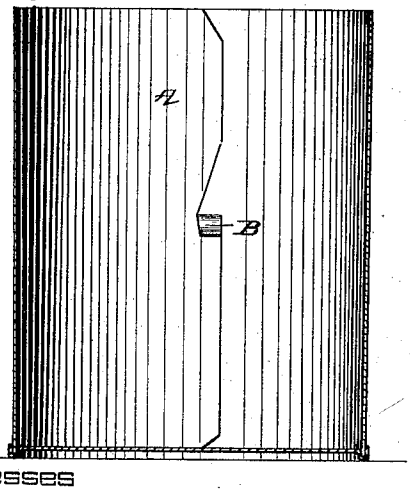
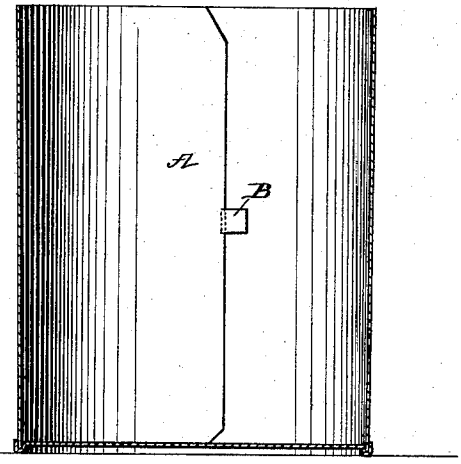


Fig. 3.



WITNESSES

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SHEET-METAL VESSEL.

SPECIFICATION forming part of Letters Patent No. 366,049, dated July 5, 1887.

Application filed May 3, 1887. Serial No. 236,906. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS A. WALSH, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Sheet-Metal Vessels; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to sheet-metal vessels; and it consists in certain peculiarities of construction, whereby said vessels are enabled to nest one within another to a certain point, and thereby economize space and protect their upper edges, all as will be more fully set forth hereinafter, and pointed out in the claims.

In the drawings, Figure 1 is a view showing two of my vessels nested together, the lower vessel shown in central vertical section and the upper vessel shown in elevation. Fig. 2 is a vertical longitudinal section of one of said vessels, taken on a line at right angles to the section-line of Fig. 1; and Fig. 3 is a similar view showing another form of stop.

A represents one of my vessels, which, when completed and ready for nesting, transportation, sale, or storage, are simple nearly-straight cans with any suitable bottom secured thereto, but with the tops left plain, ready to be closed in any suitable manner after the said cans have been filled with paint, fruit, or any desired contents, and in the condition shown in the drawings the cans are shipped to manufacturers of paint, preserved fruit, &c., who fill the cans, and then seam, solder, or otherwise secure suitable tops or covers thereto; but the marketable article is sold and shipped before the tops or covers are thus secured, and heretofore difficulties have arisen and loss resulted from the following reasons: First, if the top edges of these cans (which are usually made of thin sheet metal) get bent or broken, they are unfit to go through a seaming-machine, (after being filled,) and therefore are a loss; secondly, with cans of equal body-diameter throughout one can will not nest within another, and if cans are made but slightly tapering to overcome this, then they will nest so closely together that it is very difficult to separate them. At the same time paints, preserved fruits, vegetables, and certain other commodities are by custom only put up in cans substantially straight, and therefore I make my present vessels with an exceedingly slight taper from one end to the other, so that one end of the can is of slightly greater diameter than the other; and to prevent the upper can from nesting too deeply within the can below I provide the stop B, which may be formed in any convenient manner. In Fig. 2 I show this stop cut from one of the side edges of the blank before the body is formed, and rolled over without waste of stock, while in Fig. 3 I show a form wherein additional stock is used when the blank is cut, and this piece is then designed to be turned at a right angle to the blank and project inward toward the center of the can, as indicated by the double-dotted line shown in Fig. 3, which is supposed to represent the edge view of the end of this stop when so turned in. Similarly with the form shown in Fig. 2, the stop could be turned down to a horizontal position, instead of being rolled, or the stop shown in Fig. 3 could be rolled; but the two forms shown are believed to be cheap, simple, and practical, and of sufficient strength to prevent deep nesting during transportation or storage, no matter how many cans may be thus nested together.

My invention is applicable to vessels of any shape in cross-section, with or without bottoms, where too close nesting or crowding is to be avoided.

My stop might be made separately and afterward secured to the vessel; but in most cases it is better and cheaper made as hereinbefore described.

When my vessels are nested together, the top of each vessel below the upper one is protected from being bent, broken, or torn by the adjacent outer surface of the body of the vessel above it.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a sheet-metal vessel, a stop projecting from the body of the vessel to guard against undue nesting or crowding, substantially as set forth.

2. In a sheet-metal vessel, a stop formed from the metal of the body and bent or turned

from the edge of the lap-seam thereof, substantially as set forth.

3. A sheet-metal vessel having a body of a slightly-diminishing taper from top to bottom and having a stop projecting from the surface of said body, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FRANCIS A. WALSH.

Witnesses:
S. S. STOUT,
MAURICE F. FREAR.